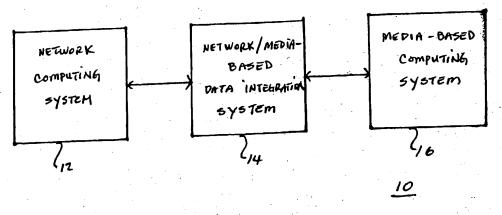
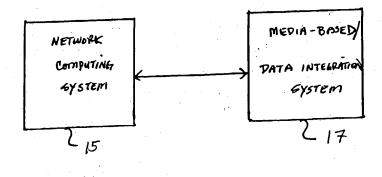
Title: "Method and System For Remote Television Replay" plication No.: Not Yet Assigned ventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 1 of 37

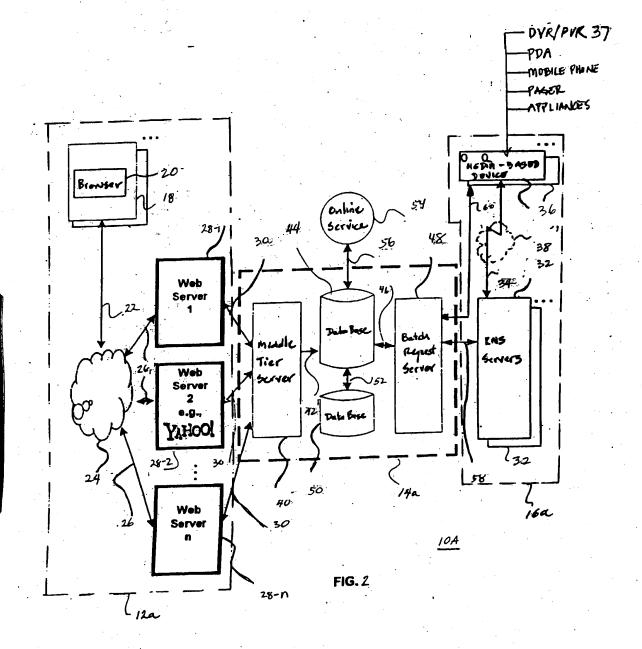


F16, 1A



F14.1B

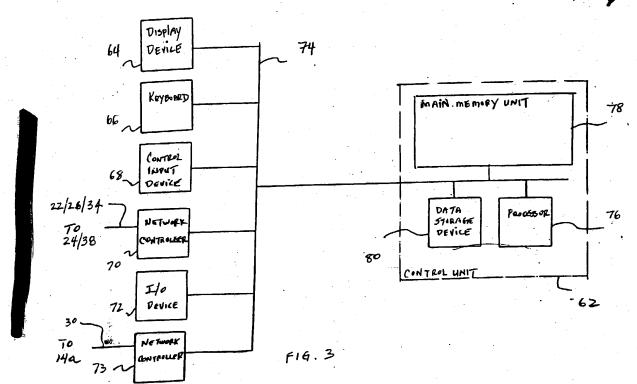
Title: "Method and System For Remote Television Replay" ation No.: Not Yet Assigned ors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 2 of 37



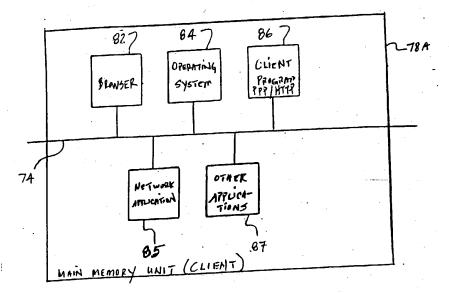
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Title: "Method and System For
Remote Television Replay"
cation No.: Not Yet Assigned
htors: Millard E. Sweatt, III, et al.
Atty. Docket No.: 22407-05391; Case 5391 US
Sheet 3 of 37

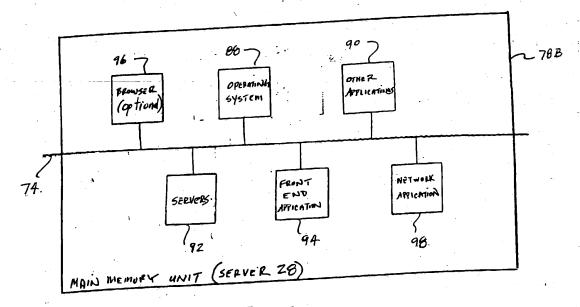
18/28/40/32/48/36



Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 4 of 37



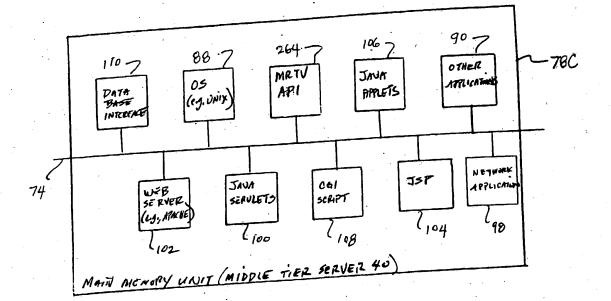
F14. 4A



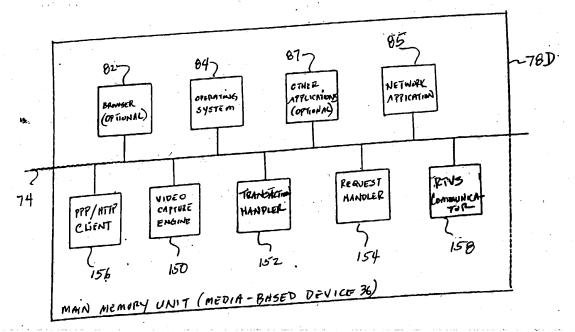
F16.4B

Title: "Method and System For Remote Television Replay" plication No.: Not Yet Assigned ventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US

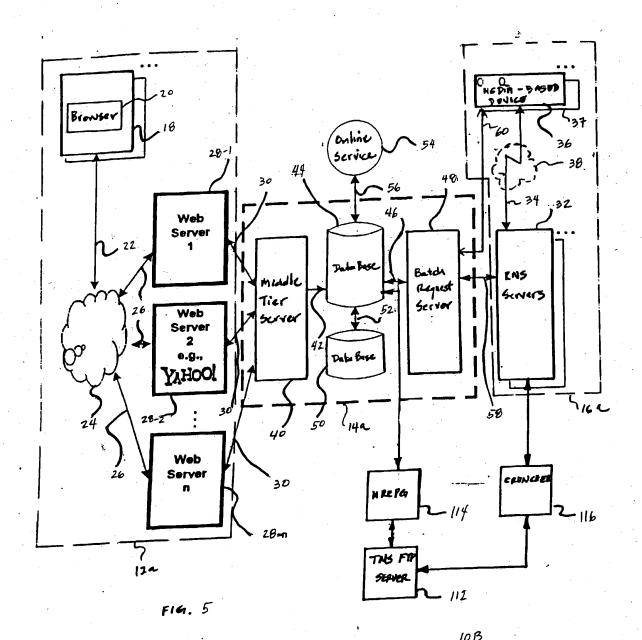
Sheet 5 of 31



F16. 4C

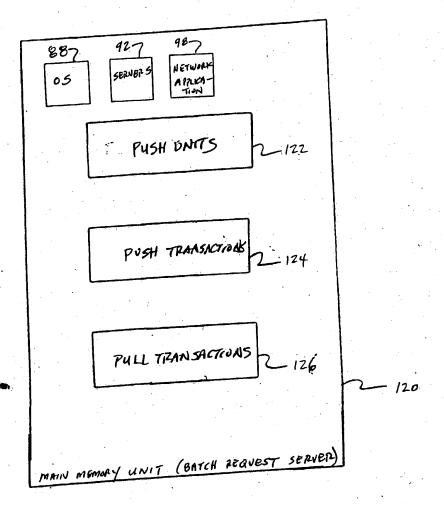


Title: "Method and System For Remote Television Replay" lication No.: Not Yet Assigned entors: Millard E. Sweatt, Ill, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 6 of 37



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Title: "Method and System For Remote Television Replay" ication No.: Not Yet Assigned Intors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 7 of 37



F161.6

D998309.080801

Title: "Method and System For Remote Television Replay" Ilication No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 8 of 37

MYRTV_USER

User_id Login Password Customer_Login Created (date) Enabled (Y/N) 1 - many

MYRTV_UNIT

Unit_id SerialNumber User_id (FK)
Lastupdate (date)
Created (date) Enabled (Y/N)

F16, 7

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 9 of 31

REGISTRATION
VERIFICATION

REGISTRATION
VERIFICATION

REQUEST

RESPONSES

136

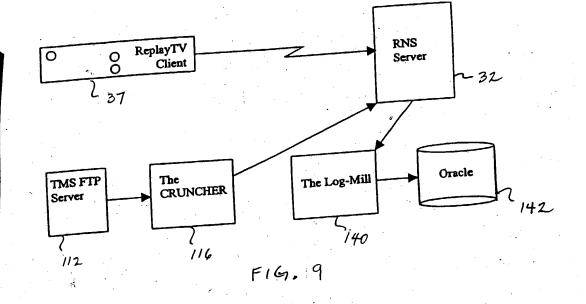
RESPONSES

F16.8

12

130

Title: "Method and System For Remote Television Replay" pplication No.: Not Yet Assigned nventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 10 of 3¶



Title: "Method and System For Remote Television Replay" cation No.: Not Yet Assigned ntors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 11 of 37

Television program 1667 162 Remote control device 170 2 0000 00 Replay Unit (Client side) 37 ads, program guides) (impressions, accounting, Control line From National Broadcaster 164 To/From server side → 32/48

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 12 of 3¶

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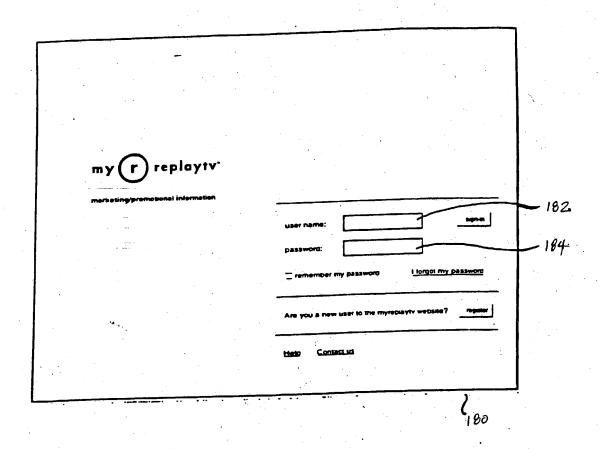


FIG. 11

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 13 of 31

Horp Logout National Record		7:30 PM (~ 202			Spin City	· · · ·	Entertainmen	Hollywood Sq	Family Feud	wheel of For	Mandarin New	n Le	EastEnders		The Drew Car		
Proferences H	10 oxygen	7:00 PM 7:3	.	vie		Local Origination	Frasier En	Evening Maga	Family Feud Fa	Jeopardy! W	Bailta Little Saigo M:	The NewsHour With J	Antiques Roa	v	Friends	power of Atten	n Carita de Angel
f Channel Guide Hebi	30,431 31.77 Today 03/06 1944	6:30 PM	An Officer and a Gentleman	Me, Myself & Irene	: Ne Spin City	gination	NewsCenter 4 at 6	channel 5 Ey	nprove The Nanny	ABC 7 News at 6PM		afoo Nightly Busl	BBC World Ne French Field	<u>e</u>		The Drew Car Divorce Cour	IS 14 Noticiero Un
(F)replayiv	加加加	Tue 3/06 6:00 PM	GEN	1 IN1 Me, Myse	2 KTVU 6 O'Clock Ne	3 LOOR003 Local Origination		KPIX CBS News	·					11 TVGOS TV Guide	12 KBHK The Simpsons		14 KDTV Noticias 14
1 5		Tue	<u>.</u>	,	7 700		4	206 J. 5 KPIX	,	•					807	ا سر	?

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T16, 124

Title: "Method and System For Remote Television Replay" plication No.: Not Yet Assigned eventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 14 of 31

1-15 yestersay 8/17 2 KTVU View COSC/II 16-30 10037 8/18 T 4 KRON Sat 8/19 31-45 6 pm 5 KPIX Record luture episor 46-80 6 PAM Sun 8/20 Record + change op Record - change options ! . 61-78 Mon 8/21 8 pm 7 KG0 Find all equadres F mg 411 10130003 76-80 Tue 8/22 9 pm e KRCB why can't i record? 91-105 Wed 8/23 10 pm 9 KOED 11 pm 106-120 Thu #24 10 KDTV 121-145 12 am Fn 8/25 222 11 KICU 144-2 212 12 KBHK Fvn0 as episones 13 KBWB 14 CNN 216 change record open 15 DISN 10 00-210

FI 4. 12B

Title: "Method and System For Remote Television Replay" pplication No.: Not Yet Assigned ventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 15 of 37

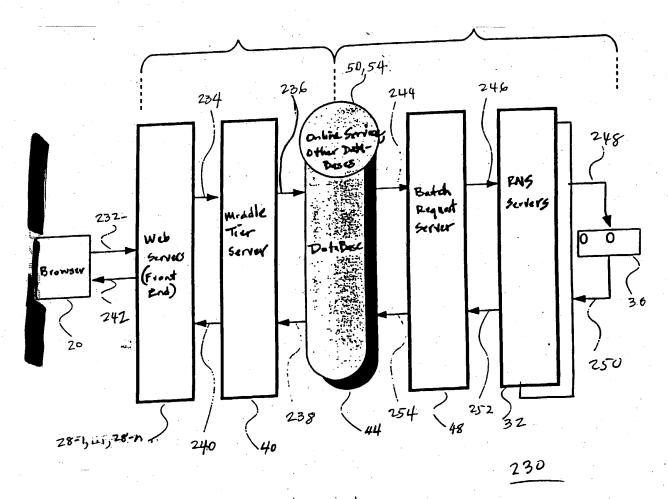


FIG. 13 A

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 16 of 37

SEQUENCE DIAGRAM

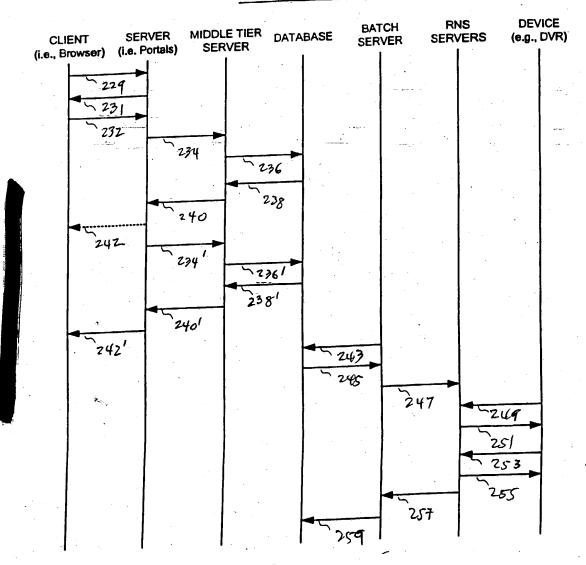


FIG. 13B

D9925109 DECECT.

Title: "Method and System For Remote Television Replay" ication No.: Not Yet Assigned itors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 17 of 37

API Routine	Function
API Routine	Creates an account for a new user based on the information received
CreateAccount	Creates an account for a new data based username and password
	Tries to authenticate a user based on the input username and password
Login	1 !- Alex
	Returns the profile of the user and his units based on his userid
GetProfile	
AddRequest	parameters, and returns the full status of the status of t
	the wear list of pending requests
DeleteRequest	Delete a request from the user list of periodical periodical and the appropriate database for the Returns the Replay Guide of the unit as saved in the appropriate database for the
GetReplayGuide	Returns the Replay Guide of the drift as server
	specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
	Li
ChangePassword	Returns the current electronic program guide for the unit based on the settings of
GetEPG	
	Returns detailed information about a specified show or search show details for
ShowGuide	Returns detailed information about a specimen particular shows based on criteria given as parameters

Title: "Method and System For Remote Television Replay" lication No.: Not Yet Assigned htors: Millard E. Sweatt, III, et al. Ary. Docket No.: 22407-05391; Case 5391 US Sheet 18 of 37

lue	Input Parameters	Output Files (Corresponding XML elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, ACCOUNT.XMI	ACCOUNT.XML
Login		ACCOUNT.XML
		REPLAYERROR.XML
GetProfile	userld	PROFILE.XML (USERINFO, UNITINFO-I)
		REPLAYERROR.XML
AddRequest	userid, unitid, reqtype(none, show, theme, update)	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-I)
	regtype=show; showtype(single, repeat, manual single,	REPLAYERROR.XML
-	manual repeat), headendid, tmsid, device, starttimegmt, name, 'Note: REQUESTSTATUS Result:=(PENDING, SENT,	*Note: REQUESTSTATUS Result:=(PENDING, SENT,
	durationinminutes, inputsource, quality, quaranteedrecord,	SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE,
	numepisodes, weekdayflags, earlystartminutes,	ROOMFAILURE)
ī. · _	showguarminutes	
	reatype=theme; searchterm, searchflags, suzukild,	
,	durationinministes, giality grantandentaring	
	rochmoningolo: undetet - / Labitachem prosporoshow	
and the con-	deleternanel, chemelid should	
DeleteRequest	Userid unitid requestid	DELETERESULT.XML
		REPLAYERROR.XML
GetReplayGuide	iserid unitid	GUIDE.XML (REPLAYCHANNEL-I)
		REPLAYERROR.XML
		*Note: REPLAYCHANNEL Type:=(SINGLE,
		SINGELMANUAL, REPEAT, REPEATMANUAL, THEME.
		THEMEEXACT, ZONE)
GetChannelLineUp	userld, unitid	CHANNELLINEUP.XML (CHANNEL-I)
		REPLAYERROR.XML
ChangePassword	userid currentnessword newnassword	ACCOUNT.XML
		REPLAYERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel,	XML file based on tyguide.dtd & typrograms.dtd
•	channelcount	REPLAYERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail	XML file based on tyguide, did & typrograms, und
	*Note: query keywords include actor, advisory, desc.	REPLATERNORS
	mpaarating, trie, etc.	

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 19 of 37

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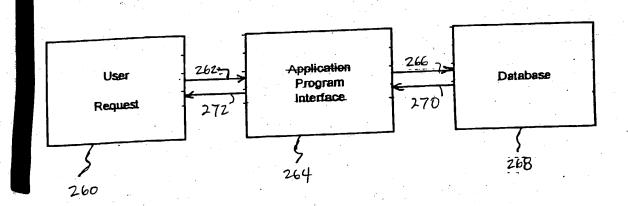
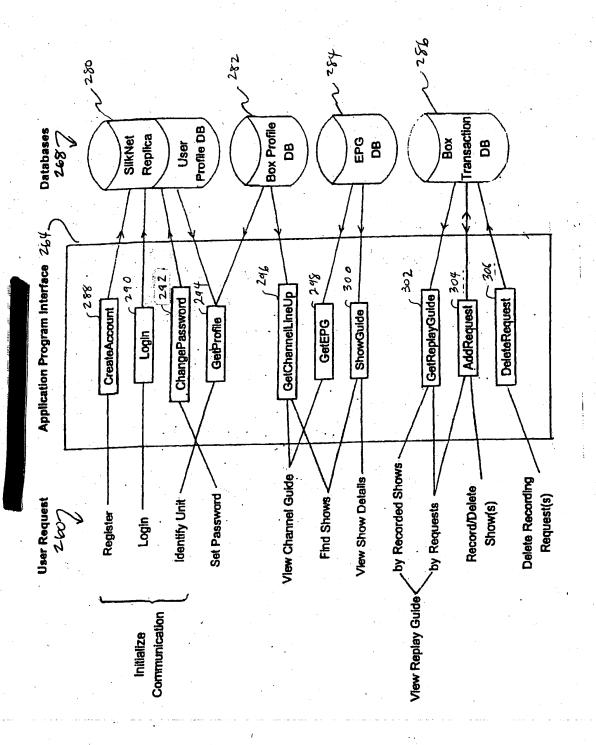


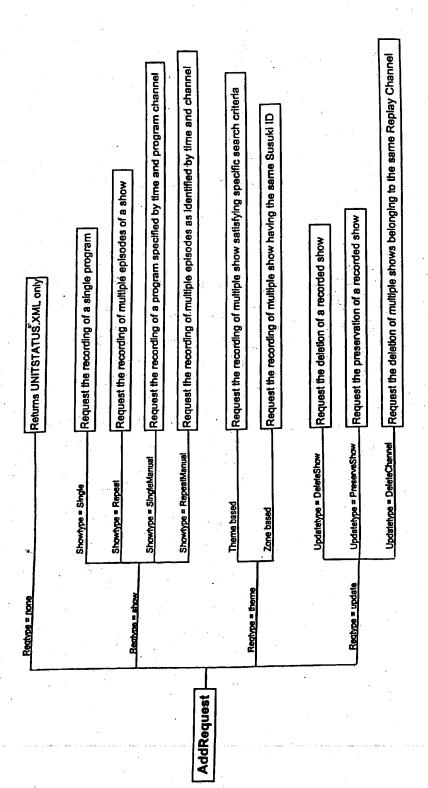
FIG. 16A

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 20 of 37



F161. 16B

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71G. 17

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 22 of 37

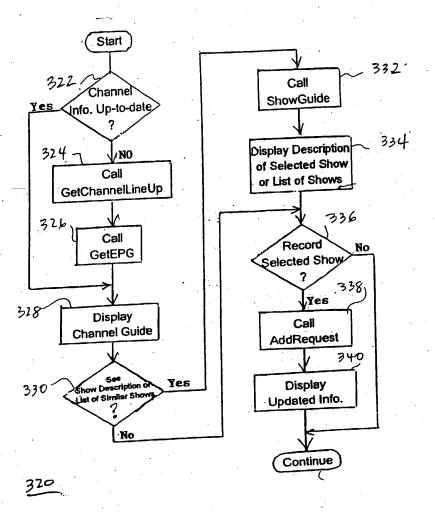


FIG. 18

Title: "Method and System For Remote Television Replay" lication No.: Not Yet Assigned Intors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 23 of 37

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Daters Suberted Chan rels

Chai	Channel	Details	Status	Request Date	
C:	A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21(TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality.		02/18	
	Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42(USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16	
	Cantonese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8(KTSF) at or around 8:00pm - 9:00pm. Guaranteed at EXTENDED quality.		02/28	
_] Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49(AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.	_	01/09	

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(Suide Kiind Siyo Guide | Replay Guide Kiind Si | V Guide Kiind Siyo Guid

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 THE PROPERTY OF THE PERSON NAMED IN	A TOTAL OF THE PARTY OF THE PAR	

	Chour						
Channel		silow Title/Episode	Date/Time	Station	Duration	Sizė	
A Fistful of Dollars		A Fistful of Dollars	02/18 7:00AM	21 TBS	(2h)	6.46%	
Blown Away	Ŀ	Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8,07%	
Captain January	L	Captain January	01/09 3:30AM	49 AMC	(1h 30m)	4.84%	
Firewalker	L	Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%	
On Deadly Ground	L.	On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%	
Piatoon		Platoon	02/048:00PM	37 TNTP	(2h 30m)	8.07%	
The Bridge on the River Kwal	L	The Bridge on the River Kwal	12/24 8:00AM	42 USAP	(3h 30m)	11.30%	
The Little Princess		The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%	
The Trouble With Harry		The Trouble With Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%	
Welcome to ReplayTV	ا د	Welcome to ReplayTV	09/08 10;49AM	·	(15m)	2.42%	

IG. 19 B

Title: "Method and System For Remote Television Replay" plication No.: Not Yet Assigned entors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 25 of 3¶

Start 372 Call Replay AddRequest Info. Up-to-date to Delete Show YES 374 364 No Display Call **Updated Replay Guide** GetReplayGuide 366. 376, Call Delete No AddRequest Recording Reques to Update Request Status Yes 378 368 T Call Display DeleteRequest Replay Guide 380 370 Display Delete Yes Updated Replay Guide Recorded Show .No Continue

360

FIG. 20

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 26 of 31

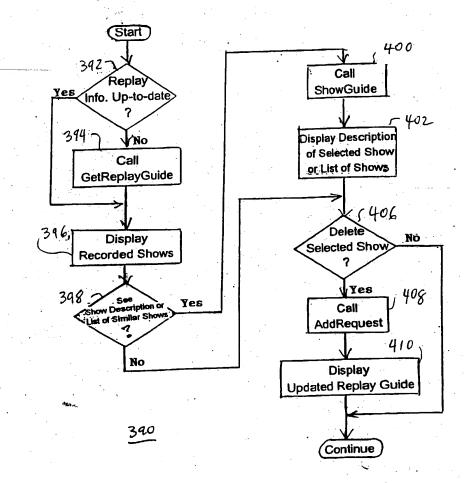


FIG. 21

Title: "Method and System For Remote Television Replay" oplication No.: Not Yet Assigned ventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 27 of 37

Preferences Heip Logout

niny Guide (Find Shows) Wantial Record

Chepiayre

Find:

Enter the word or phrase that you wish to find.

in these estegories:

☑ Descriptions

☐ Directors

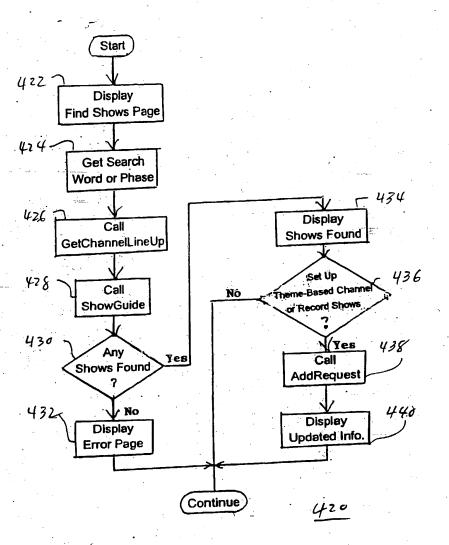
Tand Show

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FIG. 22

Title: "Method and System For Remote Television Replay"

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rig. 23

: "Method and System For Chemote Television Replay"

Title: "Method and System For Remote Television Replay" Application No.: Not Yet Assigned Inventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 29 of 37

Recording duration:

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FIG. 24A

Title: "Method and System For Remote Television Replay" pplication No.: Not Yet Assigned iventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 30 of 37

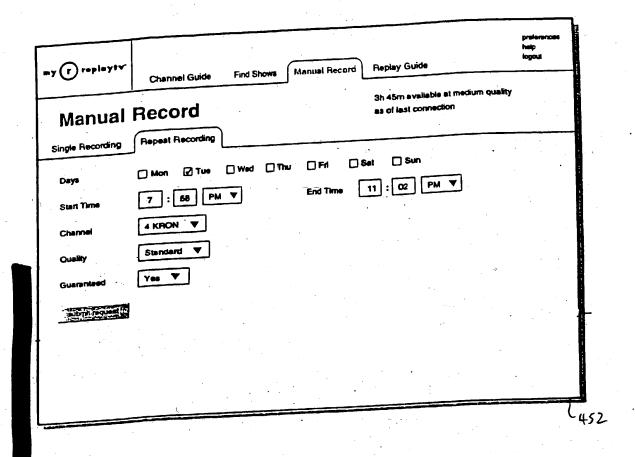


FIG. 24B

<u> 19925109 oscal</u>

Title: "Method and System For Remote Television Replay" plication No.: Not Yet Assigned eventors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 31 of 37

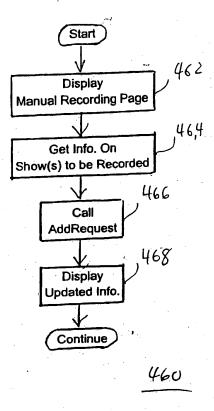


Fig. 25

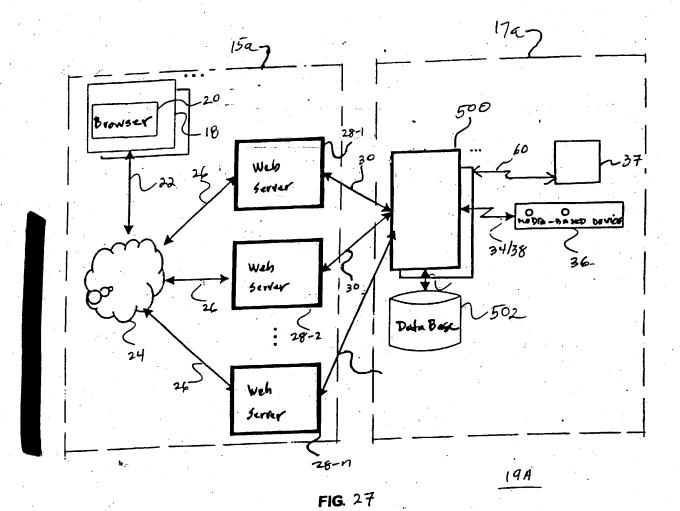
Title: "Method and System For Remote Television Replay" ication No.: Not Yet Assigned intors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 32 of 31

Start Display Homepage No Yes **New User** 488 475 Get Usemame Gather User and Password Information 490 478 Call Call Login CreateAccount 492 480 Valid Valid Yes Yes **Account** User Info. Call No **GetProfile** No 486: Display Display Error Page 484 Error Page Determine Default Page Continue

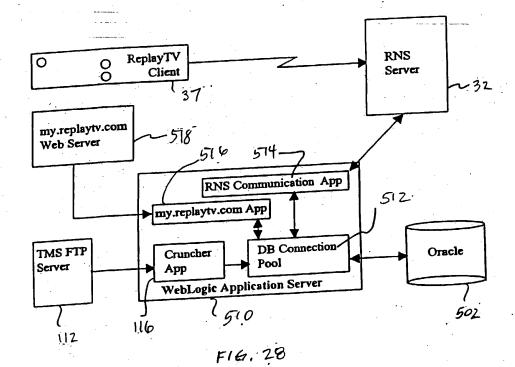
FIG. 26

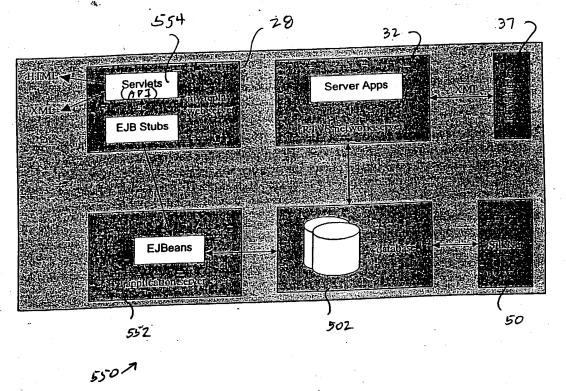
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Title: "Method and System For Remote Television Replay" catlon No.: Not Yet Assigned ntors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US Sheet 33 of 37



<u>D9925109 DBDSO1</u>

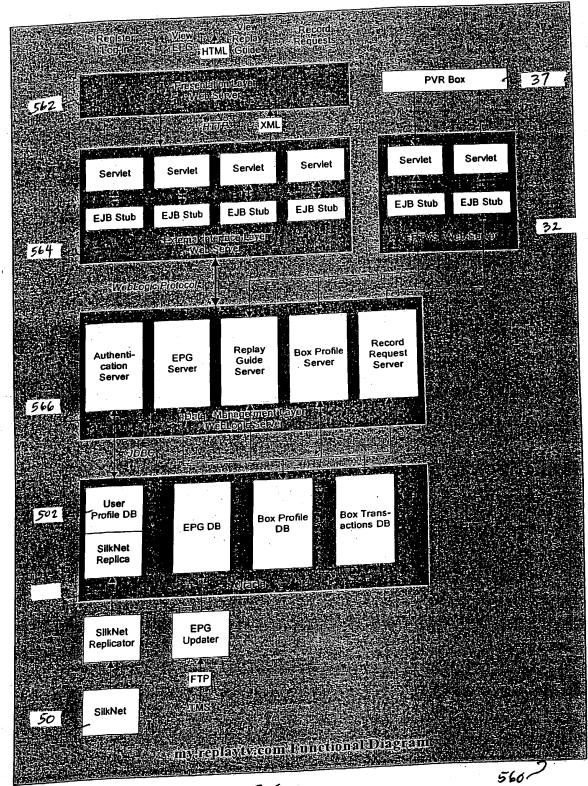




F19.29

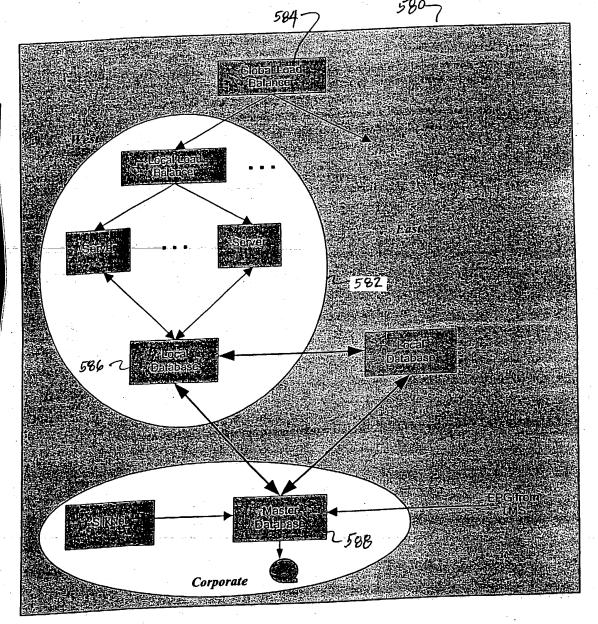
Title: "Method and System For Remote Television Replay" lication No.: Not Yet Assigned entors: Millard E. Sweatt, III, et al. Atty. Docket No.: 22407-05391; Case 5391 US 19925109 IBOBOL

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F16. 31